

# Service Manual

ORDER NO. RRV1628

STEREO AMPLIFIER

# A-P6500

● This product is a component of a system.

Refer to the service manual RRV1627 for XS-P6500.

- This product does not function properly when independent; to avoid malfunctions, be sure to connect it to the prescribed system component(s), otherwise damage may result.
- XS-P6500 is a combination of the following components.

STEREO AMPLIFIER : A-P6500 STEREO TUNER : F-P5500RDS COMPACT DISC PLAYER : PD-P5500 STEREO DOUBLE CASSETTE DECK : CT-P5500WR



# Service Manual

ORDER NO. **RRV1627** 

SEPARATE MINI COMPONENT SYSTEM

# XS-P6500

• Refer to the service manual RRV1525 for XS-P5500.

#### THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

_	Model		_
Туре	XS-P6500	Power Requirement	Remarks
MYIXK	0	AC220-230V	
MYXK/EA	0	AC220-230V	
MYXK/EB	0	AC220-230V	
NVXK	0	AC230V	

XS-P6500 is a combination of the following components.

STEREO AMPLIFIER

: A-P6500

STEREO TUNER

: F-P5500RDS

COMPACT DISC PLAYER

: PD-P5500

STEREO DOUBLE CASSETTE DECK: CT-P5500WR

- This product does not function properly when independent; to avoid malfunctions, be sure to connect it to the prescribed system component(s), otherwise damage may result.
- This product is a component of a system.

For the system composition STEREO TUNER: F-P5500, COMPACT DISC PLAYER: PD-P5500 and STEREO DOUBLE CASSETTE DECK: CT-P5500WR etc., refer to the service manual RRV1525 for XS-P5500.

• This manual is applicable to STEREO AMPLIFIER: A-P6500.

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U. S. A. PIONEER ELECTRONIC (EUROPE) N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Lane Crawford Place, Singapore 0923

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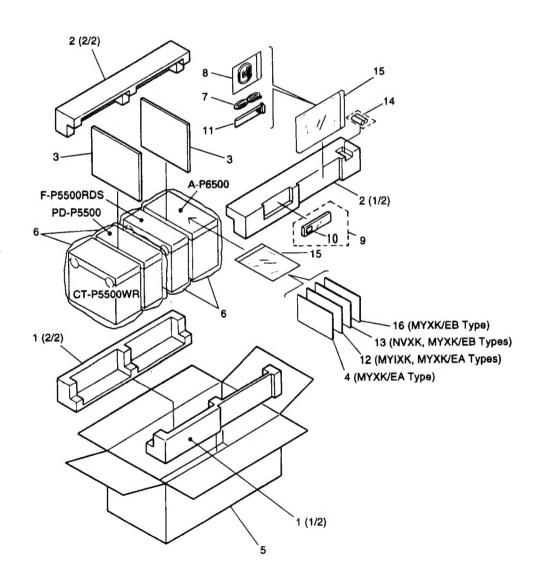
# 1. EXPLODED VIEWS, PACKING AND PARTS LIST

#### **NOTES:**

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "O" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

#### 1.1 PACKING

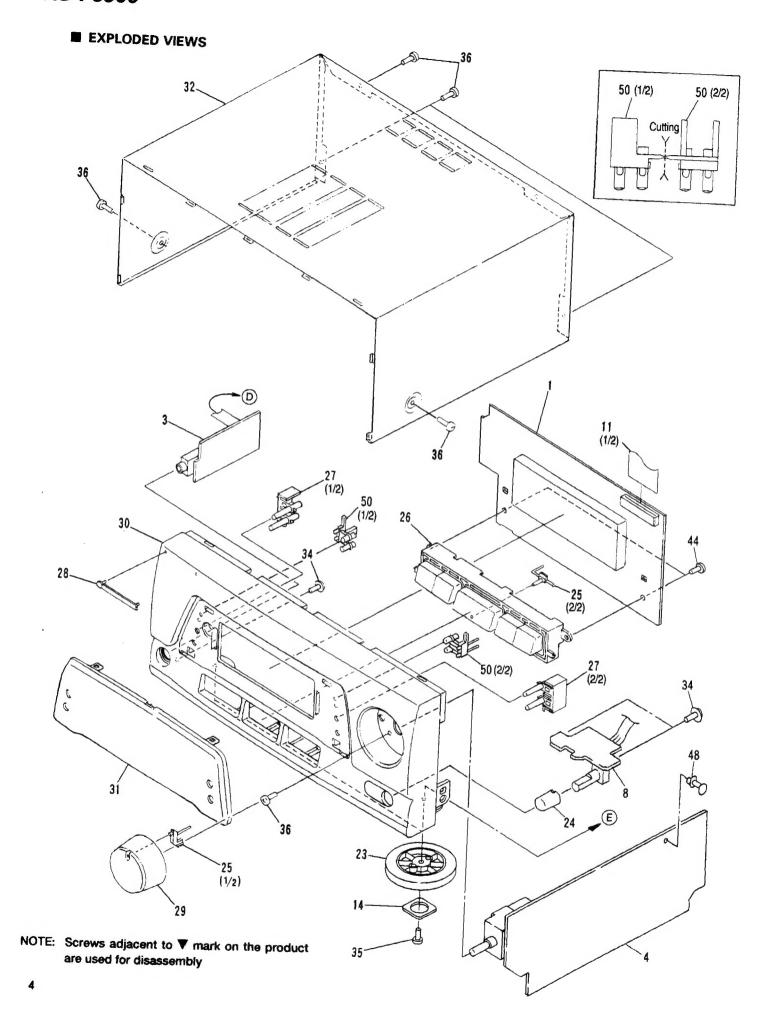
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	PAD B	RHA1190		11	CONTROL CODE	RDE1041
	2	PAD T	RHA1191		12	OPERATING INSTRUCTIONS	RRD1179
	3	SPACER	RHG1713			(German/Italian)	
	4	OPERATING INSTRUCTIONS	RRD1180			(MYIXK, MYXK/EA types)	
	(French/Dutch) (MYXK/EA type)			13	OPERATING INSTRUCTIONS	RRB1171	
			RHG1743			(English) (NVXK, MYXK/EE	types)
				NSP	14	BATTERY (R03, AAA)	VEM-022
	6	SEAT (550x550x0.5)	Z23-026		15	POLYETHYLENE BAG	Z21-038
	7	FM ANTENNA ASSY	ADH1019			(0.03x230x340)	
	Ŕ	LOOP ANTENNA	ATB7002		16	OPERATING INSTRUCTIONS	RRD1181
	9	REMOTE CONTROL UNIT	RPX1085			(French/Swedish/Spanish/Port	
	10	BATTERY COVER	AZA7050			(MYXK/EB type)	/

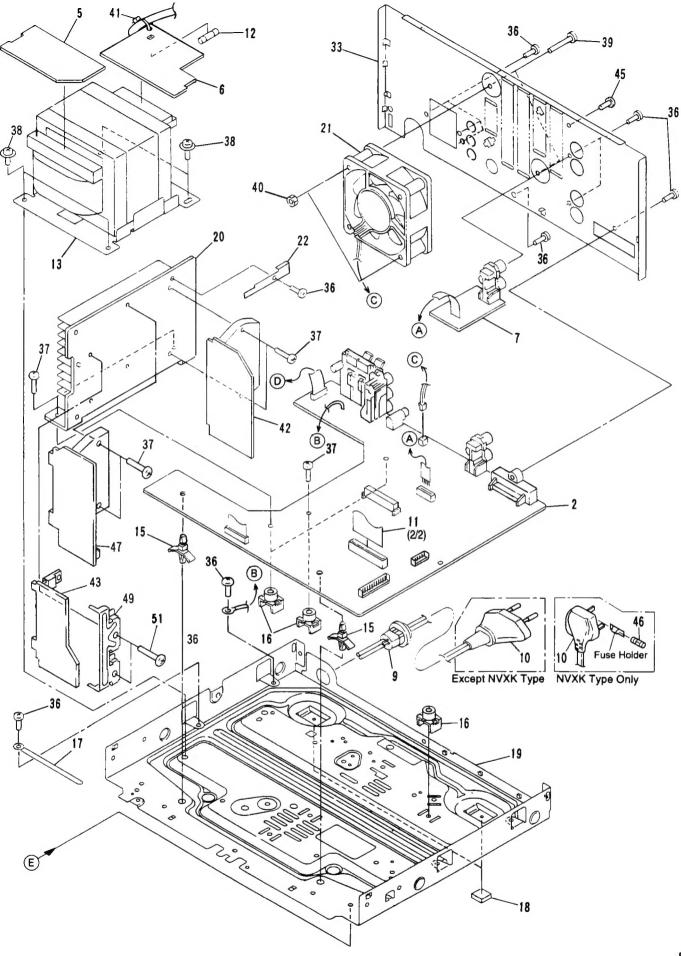


#### 1.2 STEREO AMPLIFIER (A-P6500)

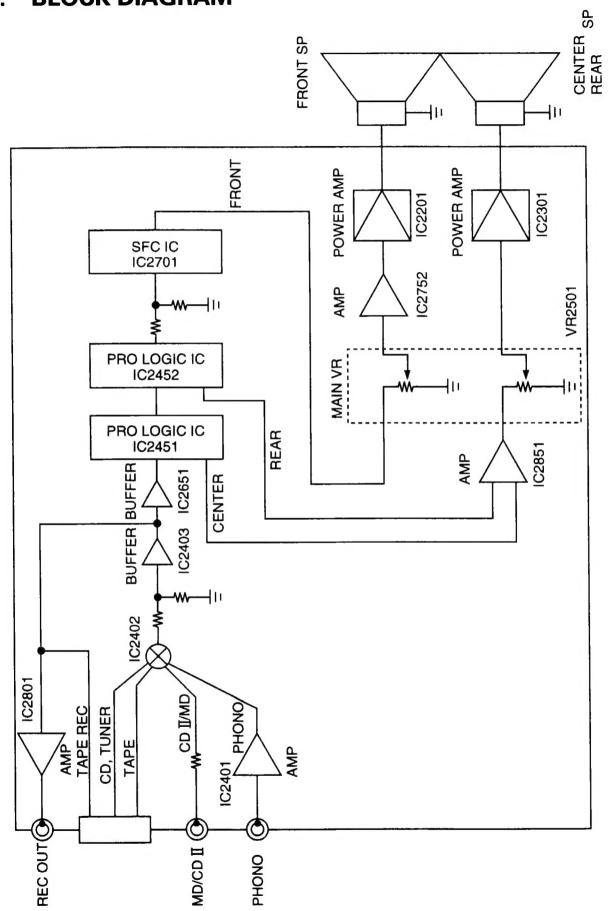
#### PARTS LIST

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	DISPLAY ASSY	RWZ3882		41	BINDER	ZCA-SKB90BK
	2	MAIN ASSY	RWZ3920		42	POWER AMP ASSY	RWZ3879
ISP	3	H. P. ASSY	RWZ3926		43	REG. ASSY	RWZ3923
NOP.	_		RWZ3921		44	SCREW	BPZ30P080FMC
	4 5	VR DOL. PROLOG. ASSY CONNECT ASSY	RWZ3921 RWZ3924		45	SCREW	BSZ30P080FZK
	5	CONTRET ABOT					
ISP	6	AC. CONNECT ASSY	RWZ3925	Δ	46	FUSE (T5A) (NVXK type only)	
<b>ISP</b>	7	REC. OUT ASSY	RWZ3883		47	REAR POWER AMP ASSY	RWZ3922
	8	BAL VR ASSY	RWZ3927	NSP	48	MINI CARD SPACER	REC1278
_	9	STRAIN RELIEF	CM-22B	NSP	49	HOLDER	RNE1856
Δ	10	AC POWER CORD	ADG1138		50	LOGIC LENS	RNK2193
		(Except NVXK type)			51	SCREW	VBZ30P120FZK
Δ	10	AC POWER CORD (NVXK type)	PDG1055				
	11	28P F·F·C/30V	RDD1358				
⚠	12	FUSE (T1.25A, FU2001)	AEK1055				
$\overline{\Lambda}$	13	POWER TRANSFORMER (T1)					
_	14	FOOT SPACER	REB1296				
NSP NSP	15	PC SUPPORT	VEC1549				
101	13	TC SOTT OKT	VBC1317				
NSP	16	PCB MOLD	AMR2115				
<b>NSP</b>	17	CORD STOPPER	DNF1128				
	18	CUSHION B	REB1282				
NSP	19	UNDER BASE	RNB1115				
NSP	20	HEAT SINK	RNE1862				
	21	DC FAN MOTOR	AXM7003				
	22	SPRING	RBK1071				
	23	INSULATOR ASSY	VXA1881				
	24	MIC VOLUME KNOB	AAB7045				
	25	STA. LENS	AAK7118				
	26	BUTTON AM	RAC2111				
	27	TIMER BUTTON	RAC2107				
			PAM1407				
	28	NAME PLATE	RNK2160				
	29 30	VR KNOB PANEL AM	RAH2701				
	30	PANEL AM	KAH2/01				
	31	D. PANEL AM	RAH2711				
	32	BONNET	REA1181				
	33	REAR BASE	RNA2074				
		(Except NVXK type)					
	33	REAR BASE (NVXK type)	RNA2081				
	34	SCREW (WITH WASHER)	ABA1005				
	35	SCREW	BBZ30P100FCC				
		COREW	DD720D000E7V				
	36	SCREW	BBZ30P080FZK				
	37	SCREW	BBZ30P160FMC				
	38	SCREW	ASZ40P060FMC				
	39	SCREW	BMZ40P300FZK				





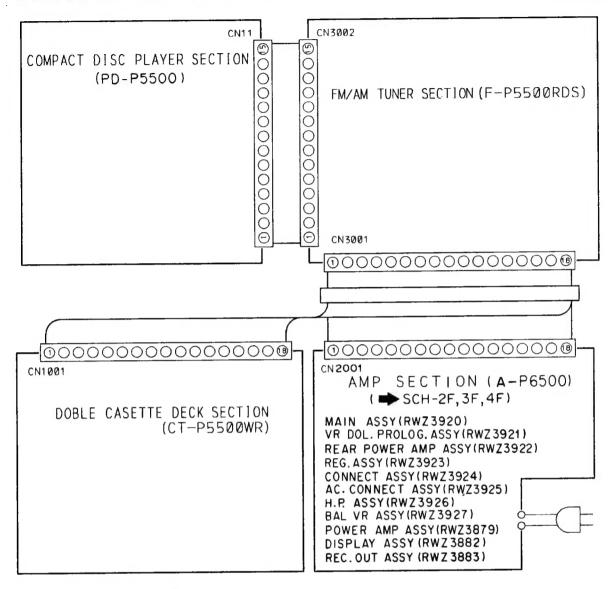
# 2. BLOCK DIAGRAM



#### **SCHEMATIC AND PCB CONNECTION DIAGRAMS** 3.

#### **OVERALL SCHEMATIC DIAGRAM**

SCH-1F



#### NOTE FOR SCHEMATIC DIAGRAMS

- 1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".
- 2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.
- 3. RESISTORS:

Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted. Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise

noted. Tolerance: (F):  $\pm 1\%$ , (G):  $\pm 2\%$ , (K):  $\pm 10\%$ , (M):  $\pm 20\%$  or  $\pm 5\%$  unless otherwise noted.

4. CAPACITORS:

Unit: p:pF or µF unless otherwise noted Ratings: capacitor (µF)/ voltage (V) unless otherwise noted. Rated voltage: 50V except for electrolytic capacitors.

5. COILS:

Unit: m:mH or µH unless otherwise noted.

6. VOLTAGE AND CURRENT:

Signal voltage at rated output

DC voltage (V) at no input signal unless otherwise noted Value in ( ) is DC voltage at rated power.

⇔ mA or ← mA: DC current at no input signal unless otherwise noted.

7. OTHERS:

Measurement point.

• The A mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

8. SCH
ON THE SCHEMATIC DIAGRAM:

 SCH—☐ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

9. SWITCHES (Underline indicates switch position):

A-P6500

DISPLAY ASSY

S2501 : + UP S2502 : - DOWN (DEMO)

S2503 CENTER MODE

S2504 : DOLBY MODE

: POWER STANDBY/ON : P. BASS S2505

S2506 SFC MODE

: TIMER REC S2508

S2509 : WAKE-UP

SCH-1F

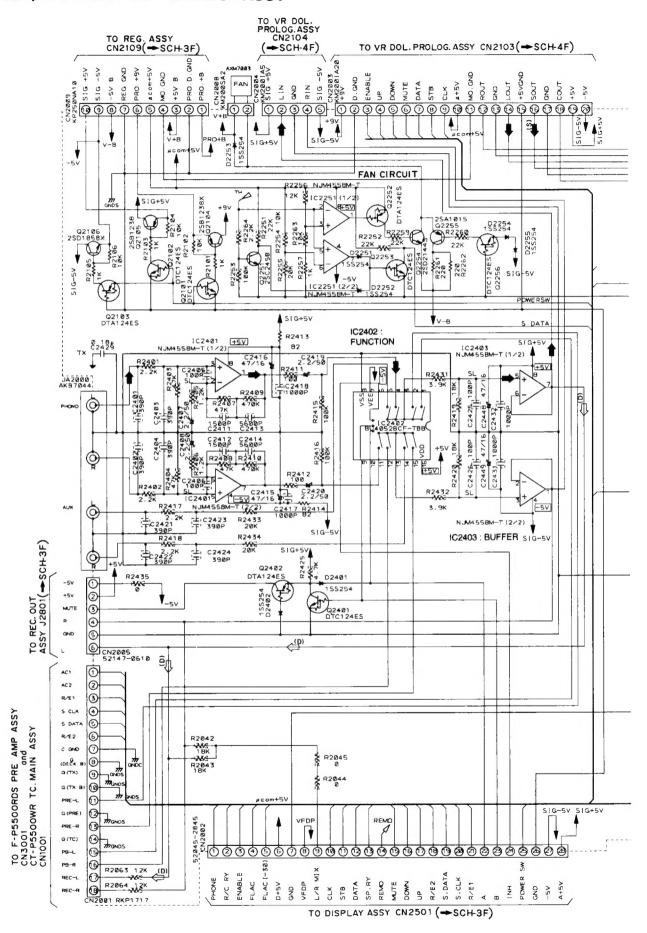
OVERALL SCHEMATIC DIAGRAM

OVERALL SCHEMATIC DIAGRAM

SCH-1F

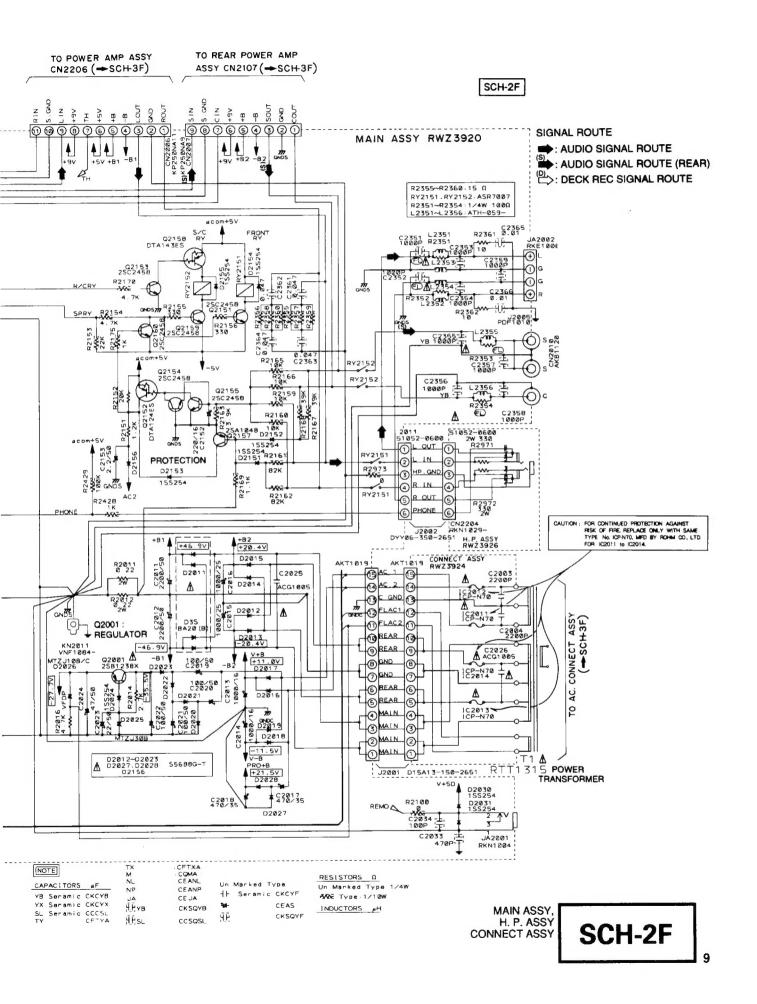
#### 3.2 STEREO AMPLIFIER (A-P6500)

#### MAIN ASSY, H. P. ASSY and CONNECT ASSY



25

MAIN ASSY, H. P. ASSY CONNECT ASSY



#### • This diagram is viewed from the mounted parts side.

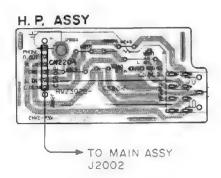
• The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

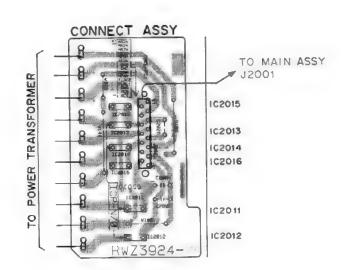
#### NOTE FOR PCB DIAGRAMS:

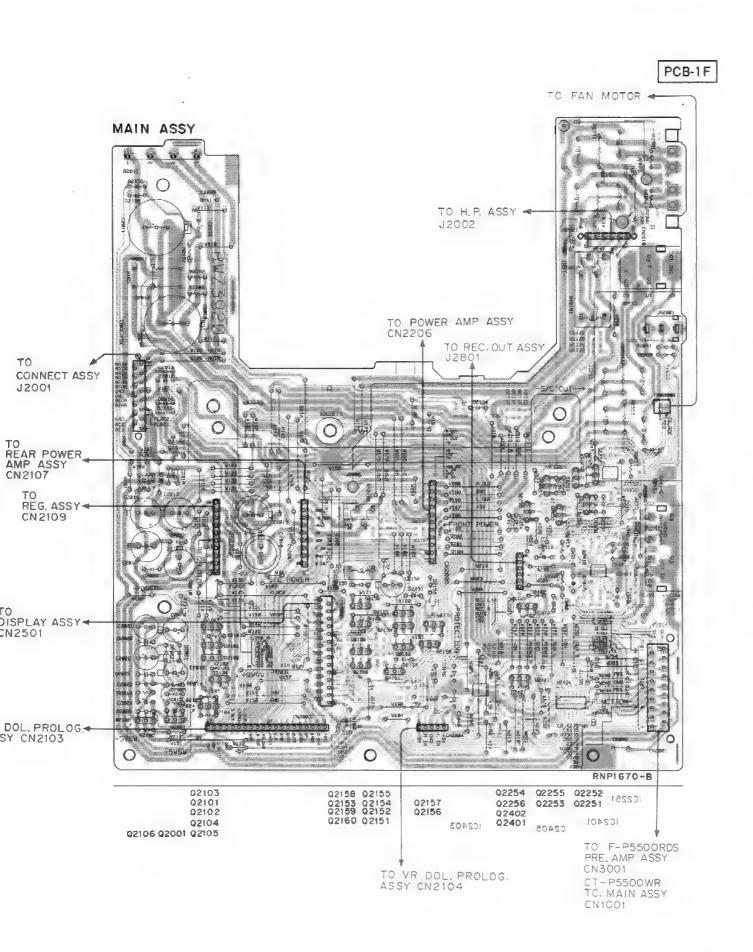
- 1. Part numbers in PCB diagrams match those in the schematic
- diagrams.

  2. A comparison between the main parts of PCB and schematic diagrams is shown below.

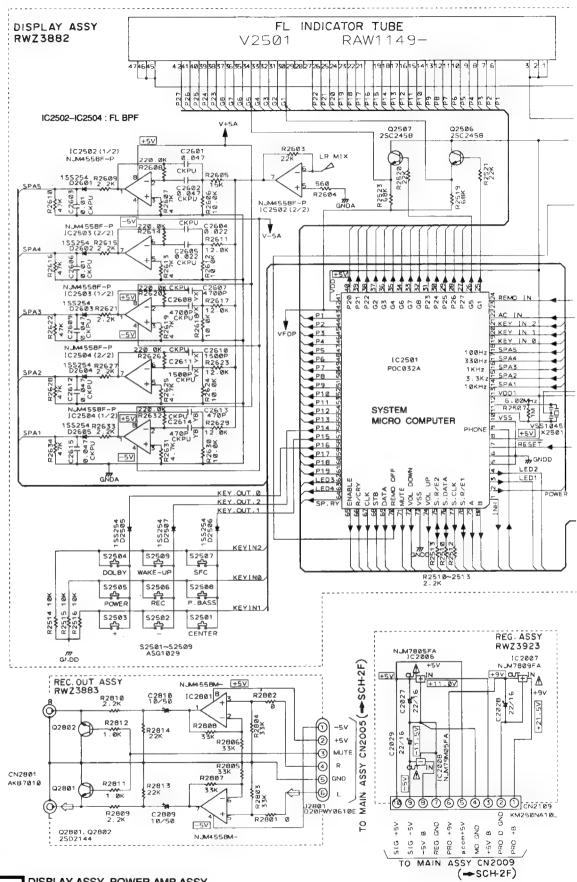
Glagians is shown		
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
O O O B C E	B C E B C E	Transistor
● <u>⊙ ⊙ ⊙</u> B C E	B C C C C C C C C C C C C C C C C C C C	Transistor with resistor
© 0 0 D G S		Field effect transistor
(000\\000)		Resistor array
000	——————————————————————————————————————	3- terminal regulator







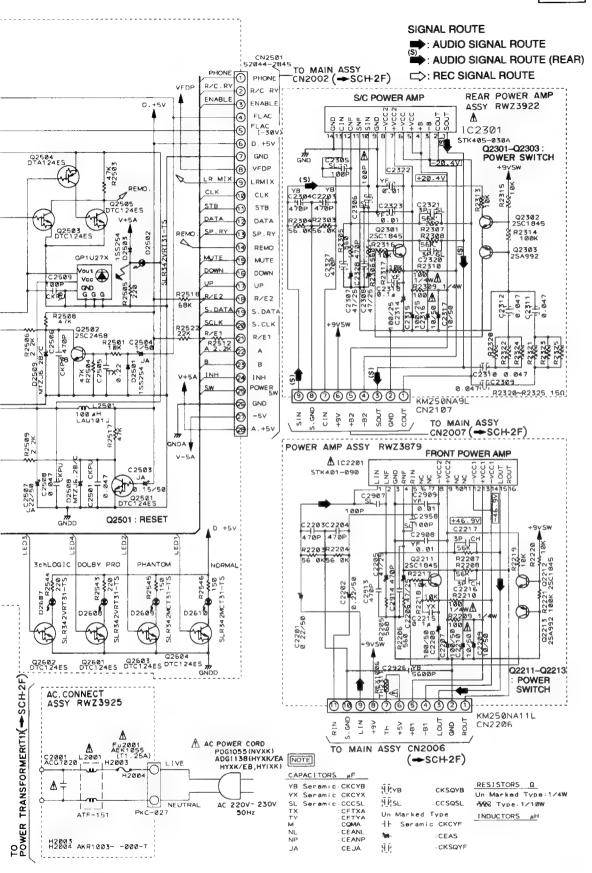
# ■ DISPLAY ASSY, POWER AMP ASSY, REC. OUT ASSY, REAR POWER AMP ASSY, AC. CONNECT ASSY, and REG. ASSY



SCH-3F

DISPLAY ASSY, POWER AMP ASSY, REC. OUT ASSY, REAR POWER AMP ASSY, AC. CONNECT ASSY, REG. ASSY

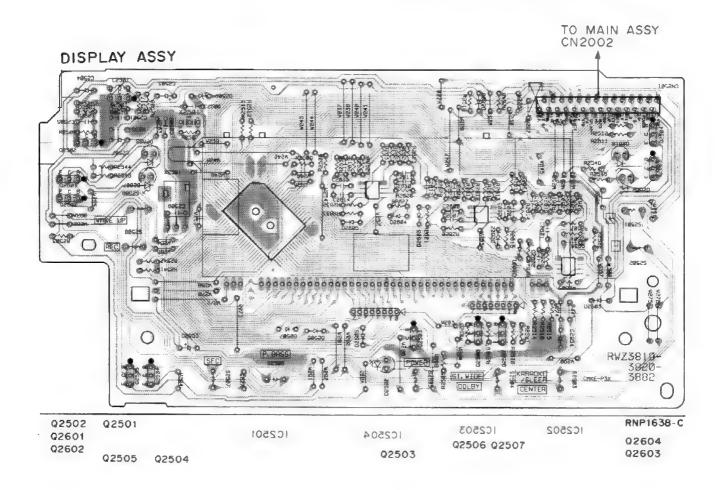
SCH-3F

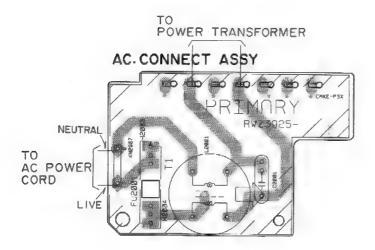


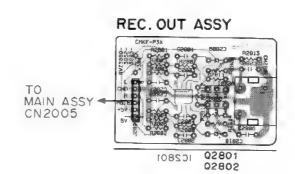
DISPLAY ASSY, POWER AMP ASSY, REC. OUT ASSY, REAR POWER AMP ASSY, AC. CONNECT ASSY, REG. ASSY

SCH-3F

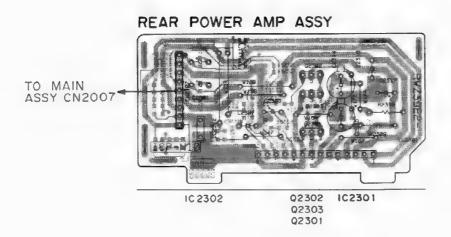
- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.

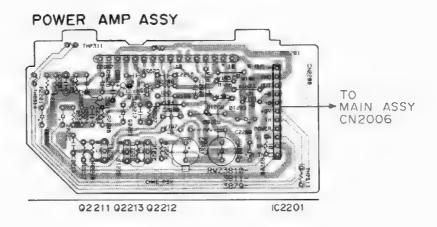


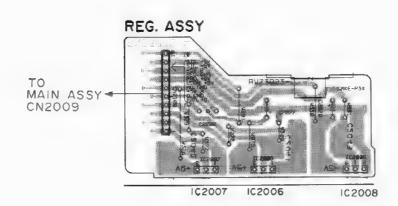




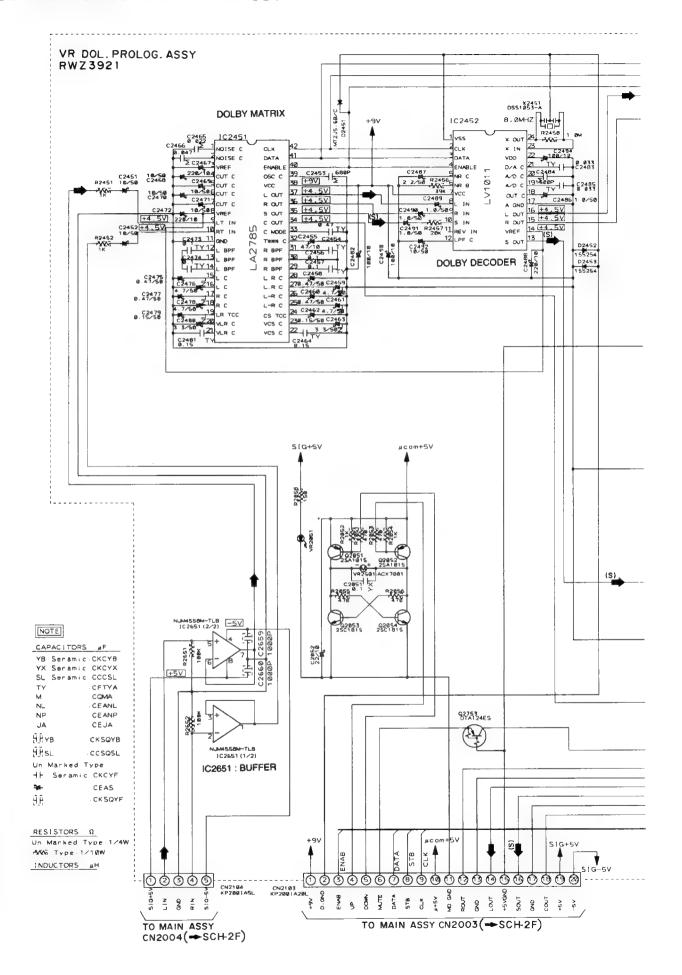
PCB-2F





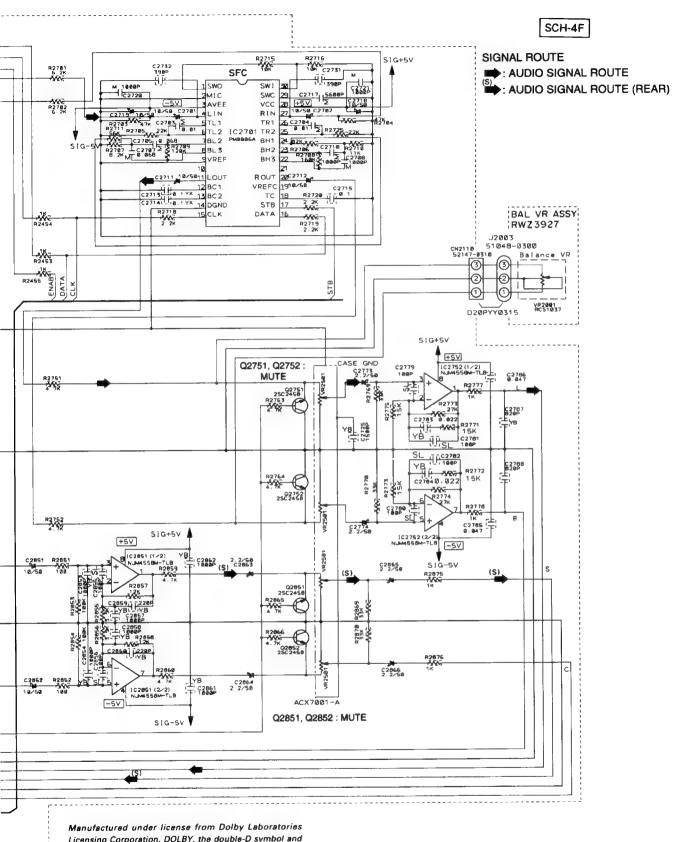


#### ■ VR DOL. PROLOG ASSY and BAL VR ASSY



SCH-4F

BAL VR ASSY
BAL VR ASSY



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> VR DOL. PROLOG ASSY, BAL VR ASSY

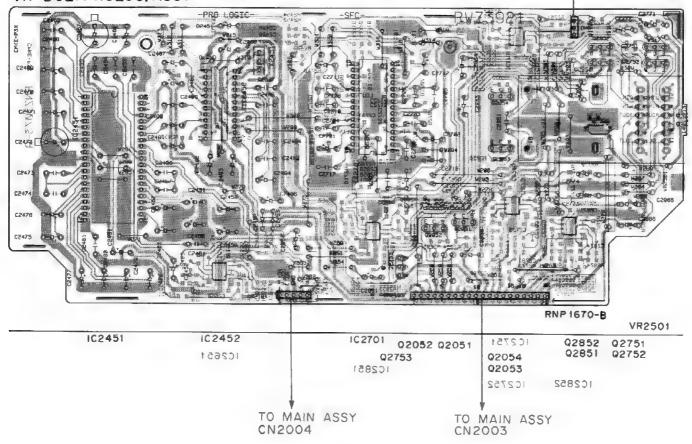
SCH-4F

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.

PCB-3F



#### VR DOL. PROLOG, ASSY



### 4. PCB PARTS LIST

#### NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47K ohm (tolerance is shown by J=5%, and K=10%).

11-10/		
$560 \Omega$	→ 56 × 10 <sup>1</sup> → 561 ···································	RD1/4PU [5]6[1] J
$47 k\Omega$	$\rightarrow$ 47 $\times$ 10 <sup>3</sup> $\rightarrow$ 473	RD1/4PU 4.73 J
		RN2H OR5 K
		RS1P []RO K
2 When I	there are 3 effective digits (such as in hi	gh precision metal film resistors).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors). 5.62 k $\Omega \rightarrow$  562  $\times$  10'  $\rightarrow$  5621 ......RN1/4PC [5]6]2[1] F

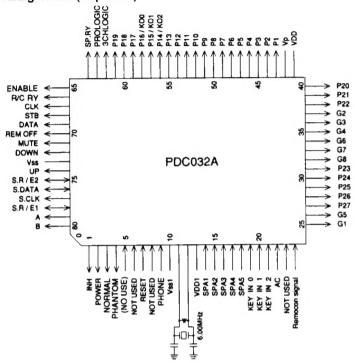
Marl	No.	Description	Parts No.	Mark	No.	Description	Parts No.
LIST	OF PC	B ASSEMBLIES	3	DISP	LAY A	ASSY	
			DWA41012	SEMIC	ONDU	TORS	
NSP	DISPLAY		RWM1913	QEIIII Q			NJM4558M
		ER AMP ASSY	RWZ3879		IC2502-IC	.2304	
	- DISI	PLAY ASSY	RWZ3882		IC2501		PDC032A
NSP	└─ REC	OUT ASSY	RWZ3883		-	2506, Q2507	2SC2458
					Q2504		DTA124ES
NSP	AMP ASS	<b>Y</b>	RWM1926		Q2501, Q	2503, Q2505, Q2601-Q2604	DTC124ES
	1	N ASSY	RWZ3920				
	1	DOL. PROLOG, ASSY	RWZ3921		D2501, D	2503, D2505-D2507	1SS254
		R POWER AMP ASSY	RWZ3922		D2601-D2	2605	1SS254
		i. ASSY	RWZ3923		D2508, D	2509	MTZJ6.2B
			RWZ3924		D2609, D		SLR-342MCT31
		INECT ASSY				2607, D2608	SLR-342VRT31
NSP		CONNECT ASSY	RWZ3925		D2302, D	2007, D2000	JUN-J-ZVKIJI
NSP		. ASSY	RWZ3926				
	— BAI	. VR ASSY	RWZ3927	COILS	AND F	LTERS	
					L2501		LAU101J
POV	VER AN	/IP ASSY					
				SWITC	HES A	ND RELAYS	
~===	CONDING	TORC		3,,,,,	S2501-S2		ASG1029
	CONDUC	ORS			32301-32	.309	AGG IVES
Δ	IC2201		STK401-090				
	Q2213		2SA992	CAPAC	CITORS		
	Q2211, Q2	212	2SC1845		C2504		CEJA010M50
					C2507		CEJA220M50
САР	ACITORS				C2503		CEJAR15M50
<b>υ</b> Λι <i>ι</i>	C2216, C2	117	CCCCH030C50		C2505		CFTXA224J50
			CCCSL101J50		C2509		CKPUYB101K50
	C2907, C2				Cabor		
	C2209, C2		CEAS100M50		C3506_C	2613, C2614	CKPUYB471K50
	C2207, C2		CEAS101M50		C2603, C		CKPUYF103Z25
	C2205, C2	206	CEAS470M25		-		
					C2604, C		CKPUYF223Z25
	C2201, C2	202	CEASR22M50			2508, C2601, C2602, C2609	CKPUYF473Z16
	C2215		CGCYX104M16		C2612, C	72615	CKPUYF473Z16
	C2203, C2	204, C2913, C2914	CKCYB471K50				
	C2926		CKCYB562K50		C2610, C	2611	CKPUYX152M16
	C2908, C2	909	CKCYF103Z50		C2607, C	2608	CKPUYX472M16
				DE0:0	TOPO		
RESI	STORS			RESIS			PP 111
▲	R2209, R2	210	RD1/4PMFL101J		All Resis	tors	RD1/4PU□[]□J
-	Other Res		RD1/4PU 🗆 🗆 🗓 J				
				OTHE			
ОТН	ERS				CN2501	28P FFC CONNECTOR	52044-2845
•		11P PLUG	KM250NA11L			REMOTE RECEIVER UNIT	GP1U27X
Δ	TH2311	THERMISTOR	REX1006		V2501	FL INDICATOR TUBE	RAW1149
a	1114311	HILKINGTON	KLISTOO		X2501	CERAMIC RESONATOR (6.00MHz	VSS1045

MINITE	No. Description	Parts No.	Mark	No.	Description	Parts No.
REC	. OUT ASSY			C2417, C	2418, C2431, C2432	CKSQYB102K50
CEMI	CONDUCTORS			C2411, C		CKSQYB152K50
) LIVII		NINAGEONA			2404, C2421-C2424	CKSQYB391K50
	IC2801	NJM4558M		C2033		CKSQYB471K50
	Q2801, Q2802	2SD2144S		C2413, C		CKSQYB562K50
ADA	CITODE			C2361-C	2364	CKSQYF473Z50
APA	CITORS C2809, C2810	CEAS100M50	RESIS	TORS		
	C2007, C2010	CLIGIOOMS	nesis	R2351-R2	2354	RD1/4PMFL101J
FCIG	STORS			R2361, R		RD1/4PU100J
		RD1/4PU□□□J		-	2103, R2105	RD1/4PU102J
	All Resistors	KD1/4FUJ			2104, R2106, R2263	RD1/4PU103J
THE	DC			R2151	2107, 162100, 162203	RD1/4PU122J
Inc	CN2801 2P PIN JACK (REC. OUT)	AKB7010				
	CN2601 2F FIN JACK (RBC, OUT)	ARBIOIO		R2152		RD1/4PU203J
ΊΔΙ	N ASSY			R2261, R	2262	RD1/4PU221J
••				R2014		RD1/4PU272J
CRAI	CONDUCTORS			R2016 R2413, R	2414	RD1/4PU472J RD1/4PU820J
_tV1[	IC2402	BU4052BCF		N6713, K	erri f	ND 1741 00403
	IC2251, IC2401, IC2403	NJM4558M		R2011, R	2012	RS2LMFR22J
	Q2255	2SA1015		Other Res		RS1/10S UJ
	Q2157	2SA1048				
	Q2001	2SB1238X	OTHE	RS		
				2011	6P CABLE HOLDER	51052-0600
	Q2104, Q2105	2SB1238X		CN2002	28P FFC CONNECTOR	52045-2845
	Q2151, Q2153-Q2155, Q2159, Q2160	2SC2458		CN2005	<b>6P JUMPER CONNECTOR</b>	52147-0610
	Q2251	2SC2458		2010	3P PIN JACK (REAR/CENTER)	AKB1120
	Q2106	2SD1858X		JA2000	4P PIN JACK (PHONO, MD/CD2	) AKB7044
	Q2254	2SD2144S				
				CN2003		KM200IA20
	Q2103, Q2152, Q2252, Q2402	DTA124ES			5P PLUG	KM2001A5
	Q2158	DTA143ES			10P SOCKET	KP250NA10
	Q2101, Q2102, Q2253, Q2256, Q2401	DTC124ES		CN2006	11P SOCKET	KP250NA11
	D2024, D2030, D2031, D2151-D2155	1SS254		CN2007	9P SOCKET	KP250NA9
	D2251-D2255, D2401, D2402	1SS254		142002	AD CDC AIVED TEDAMBIAI	DVC1004
	D2011	D3SBA20(B)		JA2002 JA2001	4P SPEAKER TERMINAL REMOTE CONTROL JACK	RKE1006 RKN1004
	D2026	MTZJ10B		CN2001	18P SOCKET	RKP1717
	D2025	MTZJ30B		C142001	PCB BINDER	VEF1008
	D2012-D2023, D2027, D2028, D2156	S5688G		KN2011		VNF1084
				10.2011		
OIL	S AND FILTERS	. —	VR D	OL. P	ROLOG. ASSY	
	L2351-L2356 (5.3µH)	ATH-059				
WIT	CHES AND RELAYS		SEMIC	CONDU	CTORS	
	RY2151, RY2152	ASR7007		IC2451		LA2785
	22 2 2 2 2 2 4 1 1 1 2 1 2 1 2 2 2 2 2 2			IC2452		LV1011
A D 4	ACITORS				IC2752, IC2851	NJM4558M
Ark		ACG1005		IC2701	20000	PM0006A
	C2025 (0.01µF/150V) C2034, C2405, C2406, C2425, C2426	CCSQSL101J50		Q2051, Q	22052	2SA1015
	C2019-C2022	CEASIOIM50		00063 0	22054	2001016
	C2013, C2014	CEASIOIMSO CEASIO2M16		Q2053, Q		2SC1815
	C2015, C2014 C2015, C2016	CEASI02MIO CEASI02M25			)2752, Q2851, Q2852	2SC2458
	C2013, C2010	CLINGIVENIEJ		Q2753 D2452, E	17/452	DTA124ES 1SS254
	C2023	CEAS220M50		D2452, L D2451	JU433	155254 MTZJ5.6B
	C2152	CEAS221M16		₩47J1		*** * ********************************
	C2011, C2012	CEAS222M50	CADA	CITABA		
	C2153, C2407, C2408, C2419, C2420	CEAS2R2M50	CAPA	CITORS		00000110170
	C2415, C2416, C2448, C2449	CEAS470M16			2782, C2855, C2856	CCSQSL101J50
				C2463, C	.2480 .2461, C2476, C2478	CEANL3R3M50 CEANL4R7M50
		OT 4 0 4503 450		LZ439. U	.2401, C2470, C2470	CEMINLAR/IVIJU
	C2024	CEAS470M50			22490 (2240)	CE A COLONACO
	C2024 C2017, C2018	CEAS470M30 CEAS471M35		C2486, C	2489-C2491 22482-C2468-C2471-C2402	CEAS010M50
				C2486, C	C2489-C2491 C2452, C2468-C2471, C2492	CEAS100M50 CEAS100M50

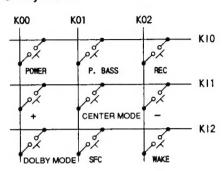
	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	C2701, C2	2702, C2711, C2712	CEAS100M50		C2309-C23	312	CKSQYF473Z50
	C2718, C2	2719, C2851, C2852	CEAS100M50				
	C2482, C2	2493, C2494	CEAS101M10	RESIST	ODC		
	C2052	•	CEAS220M10				
		2472, C2488	CEAS221M10	Δ	R2309, R2	310	RD1/4PMFL101J
	C2407, C2	1472, C2400	CEA322IMIU		Other Resi	stors	RS1/10S 🗆 🗆 🗆 J
	C2487, C2	2773, C2774, C2863-C2866	CEAS2R2M50	OTHER			
	C2455		CEAS470M10	OTHER	5		
	C2462, C2	470	CEASR15M50		CN2107	9P PLUG	KM250NA9L
		460, C2475, C2477					
			CEASR47M50	DEC	ASSY	•	
	C2456, C2	457, C2473, C2474	CFTYA104J50	nEG.	A331		
	C2464, C2	481	CFTYA154J50	SEMIC	ONDUC	TORS	
	C2483, C2	485	CFTYA333J50			10110	
	C2454		CFTYA474J50	A	IC2006		NJM78M05FA
	C2051		CGCYX104M16	Δ	IC2007		NJM78M09FA
		640 C3062 C3064		▲	IC2008		NJM79M05FA
	C2039, C2	660, C2853, C2854	CKSQYB102K50				
		858, C2861, C2862	CKSQYB102K50	CAPAC			
	C2725		CKSQYB152K50		C2027-C20	29	CEAS220M16
	C2859, C2	860	CKSQYB221K50				
	C2783, C2		CKSQYB223K50	OTHER	S		
	C2731, C2			VINER			****
	C2/31, C2	136	CKSQYB391K50		CN2109	10P PLUG	KM250NA10L
	C2787, C2	788	CKSQYB821K50	CONI	NECT.	ACCV	
	C2713-C2		CKSQYF104Z25	COM	AEC I	MOOT	
	C2785, C2		CKSQYF473Z25	CELUO	ONIDITO	TORC	
		710, C2720, C2721	CQMA102J50		ONDUC		
	C2703, C2	704	CQMA103J50	Δ	IC2011-IC2	014	ICP-N70
	C2484		CQMA152J50	CAPAC	ITORS		
	C2465		CQMA223J50	CAPAC			
			•		C2026 (0.0	l,μF/150V)	ACG1005
	C2466		CQMA473J50		C2003, C20	04	CKCYB222K50
	C2717		CQMA562J50		,		
	C2453		CQMA681J50	AC. C	ONNE	CT ASSY	
	C2705, C2	707	CQMA683J50				
	C2100, C2	701	CAMU003130	COILS	AND FIL	TERS	
						12110	4 9999 4 4 4
SIST	<b>TORS</b>			Δ	L2001		ATF-151
	VR2501 (1	WKO)	ACX7001				
		•		CAPAC	ITARE		
	Other Resi	Stors	RS1/10S 🗆 🗆 🗆 🗆 🗆				
uce				Δ	C2001 (100	00pF/250V)	ACG7020
HER		3P JUMPER CONNECTOR	52147-0310	OTHER	S		
		CERAMIC RESONATOR (8.00MHz)		JIILI		004 FUSECLIP	AKR1003
	CN2103	20P SOCKET	KP2001A20L				
		5P SOCKET PCB BINDER	KP200IA5L VEF1008	н. Р.	ASSY		
			. 24 1000	BEALA	OBC		
	RON P	IER AMP ASSY		RESIST			
EAF					R2971, R29	72	RS2LMF331J
EAF							
	ONDUC	TORS		OTHER	c		
MIC		TORS	S'TK 405,030 A	OTHER			
MIC	IC2301	TORS	STK405-030A	OTHER		SP CABLE HOLDER	51052-0600
MIC	IC2301 Q2303		2SA992			SP CABLE HOLDER MINI JACK	51052-0600 RKN1029
MIC	IC2301				CN2204	MINI JACK	
MIC	IC2301 Q2303 Q2301, Q2		2SA992			MINI JACK	
MIC	IC2301 Q2303 Q2301, Q2	302	2SA992 2SC1845		CN2204	MINI JACK	
MIC	IC2301 Q2303 Q2301, Q2 CITORS C2320, C2:	302 321	2SA992 2SC1845 CCSQSL030C50	BAL \	CN2204	MINI JACK	
MIC	1C2301 Q2303 Q2301, Q2 CITORS C2320, C2: C2305, C2:	302 321 306	2SA992 2SC1845 CCSQSL030C50 CCSQSL101J50	BAL \	CN2204 TAS	MINI JACK	RKN1029
MIC	IC2301 Q2303 Q2301, Q2 CITORS C2320, C2:	302 321 306	2SA992 2SC1845 CCSQSL030C50	BAL \	CN2204	MINI JACK	
MIC	1C2301 Q2303 Q2301, Q2 CITORS C2320, C2: C2305, C2:	302 321 306 317	2SA992 2SC1845 CCSQSL030C50 CCSQSL101J50	BAL \	CN2204 TAS	MINI JACK	RKN1029
MIC	1C2301 Q2303 Q2301, Q2 CITORS C2320, C2: C2305, C2: C2316, C2: C2314, C2:	302 321 306 317 315	2SA992 2SC1845 CCSQSL030C50 CCSQSL101J50 CEAS100M50 CEAS101M25	BAL \	CN2204 / R AS ORS VR2001 (25	MINI JACK	RKN1029
MIC	1C2301 Q2303 Q2301, Q2 CITORS C2320, C2 C2305, C2 C2316, C2	302 321 306 317 315	2SA992 2SC1845 CCSQSL030C50 CCSQSL101J50 CEAS100M50	BAL \	CN2204	MINI JACK SY (0 kΩ)	RKN1029 RCS1037
MIC	IC2301 Q2303 Q2301, Q2 CITORS C2320, C2: C2305, C2: C2316, C2: C2314, C2: C2307, C2:	321 306 317 315 308	2SA992 2SC1845 CCSQSL030C50 CCSQSL101J50 CEAS100M50 CEAS101M25 CEAS470M25	BAL \	CN2204	MINI JACK	RKN1029
MIC	IC2301 Q2303 Q2301, Q2 CITORS C2320, C2: C2305, C2: C2316, C2: C2314, C2: C2307, C2:	302 321 306 317 315 308 304, C2327, C2328	2SA992 2SC1845 CCSQSL030C50 CCSQSL101J50 CEAS100M50 CEAS101M25 CEAS470M25 CKSQYB471K50	BAL \	CN2204	MINI JACK SY (0 kΩ)	RKN1029 RCS1037
MIC	IC2301 Q2303 Q2301, Q2 CITORS C2320, C2: C2305, C2: C2316, C2: C2314, C2: C2307, C2:	302 321 306 317 315 308 304, C2327, C2328	2SA992 2SC1845 CCSQSL030C50 CCSQSL101J50 CEAS100M50 CEAS101M25 CEAS470M25	BAL \	CN2204	MINI JACK SY (0 kΩ)	RKN1029 RCS1037

### 5. IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.
- PDC032A (DISPLAY ASSY: IC2501)
- System Control Micro-computer
- Pin Assignment (Top view)



#### Key Matrix



#### Pin Function

No.	Pin Name	Pin Function	1/0	Description	Logic
1	P17	INH	0	BU4052 function INHIBIT output	Н
2	P30	POWER	0	Power control output	Н
3	P31	NORMAL	0	PRO-LOGIC NORMAL mode LED display output	Н
4	P32	PHANTOM	0	PRO-LOGIC PHANTOM mode LED display output	Н
5	P33	NOT USED	I	Not used (Fix to H or L)	
6	P70	NOT USED	I	Not used (internal pull-up)	
7	RES	RESET	I	Reset input	
8	P74	NOT USED	I	Not used (Connected to +5V.)	
9	P75	PHONE	1	Headphone detector terminal	
10	VSS1	VSS	_	Connected to GND.	
11	CF1		_		
12	CF2	_	_	Main System clock (6MHz) Connected to ceramic resonator.	
13	VDD1	VDD	-	Connected to +5V.	
14	AN0	SPA1	1	Spectrum analizer input (analog) 10 kHz	
15	AN1	SPA2	I	Spectrum analizer input (analog) 3.3 kHz	

No.	Pin Name	Pin Function	I/O	Description	Logic
16	AN2	SPA3	I	Spectrum analizer input (analog) 1 kHz	
17	AN3	SPA4	I	Spectrum analizer input (analog) 330 Hz	
18	AN4	SPA5	I	Spectrum analizer input (analog) 100 Hz	
19	P85	КІО		Key scan Key return input 0	
21	 P87	KI2	I	Key scan · Key return input 2	
22	INT1	AC	I	AC pulse input	
23	P72	NOT USED	I	Not used ( internal pull-up)	
24	INT3	RMC	I	Remote control signal input	
25	S0	G1	0	FL grid output G1	
26	S1	G5	0	FL grid output G5	
27	S2	P27		FL segment output P27	
31	S6	P23	0	FL segment output P23	
32	S7	G8		FL grid output G8	
34	   S9	G6	0	FL grid output G6	
35	S10	G4		FL grid output G4	
37	S12	G2	0	FL grid output G2	
38	S13	P22		FL segment output P22	
40	 S15	P20	0	FL segment output P20	
41	VDD2	VDD	_	Connected to +5V.	
42	VP	VFDP	1-	Connected to power supply (-30V) for FL.	
43	S16	P1		FL segment output P1	
55	 S28	P13	0	FL segment output P13	
56	S29	P14/KO2		FL segment output P14 · Key scan output 2	
58	   S31	P16/KO0	0	FL segment output P16 · Key scan output 0	
59	S32	P17		FL segment output P17	
61	   \$34	P19	0	FL segment output P19	
62	PE3	3CHLOGIC	0	DOLBY 3CH LOGIC mode LED display output	Н
63	PE4	PROLOGIC	0	DOLBY PRO LOGIC mode LED display output	Н
64	PE5	SP. RY	0	Front speaker relay output	н
65	P00	ENABLE	0	LA2785/LV1010 ENABLE output	Н
66	P01	R/C RY	0	Rear and center speaker relay output	Н
67	P02	CLK	0	PM0006A/LA2785/LV1010 clock output	

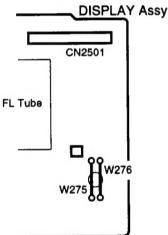
No.	Pin Name	Pin Function	NO	Description	Logic
68	P03	STB	0	PM0006A strobe output	
69	P04	DATA	0	PM0006A/LA2785/LV1010 data output	
70	P05	REMO	0	Remote control out (MD/CD2) control output	L
71	P06	MUTE	О	Mute output	Н
72	P07	DOWN	0	Volume Motor control output (DOWN)	L
73	VSS2	VSS		Connected to GND.	
74	P10	UP	0	Volume Motor control output (UP)	L
75	P11	S. R/E2	I/O	Communication request/enable input/output 2 for system bus communication.	
76	P12	S. DATA	ΙΛΟ	Data input/output for system bus communication.	
77	P13	S. CLK	0	Clock output for system bus communication.	
78	P14	S. R/E1	1/0	Communication request/enable input/output 1 for system bus communication.	
79	P15	A	0	BU4052 function switch A output	
80	P16	В	0	BU4052 function switch B output	

#### Use of Service Mode

This is used to check external input (MD/CD2, PHONO) for the amplifier by itself.

#### How to enter the service mode

 With the plug pulled from the power outlet, short-circuit (W275 and W276) the service terminal on the DISPLAY assy.



- Maintain the condition of "1" and supply AC power.
   The power will be switched on automatically and the function will become MD/CD2. The present function status will be displayed in the 7-segment time column of the front FL.
- 3. After power ON, remove the terminal short-circuit bridge. (Otherwise key operation can not be executed.)
- 4. The function status can be changed by body key operation.
  The relation between key operation and FL display is shown in Table 1.

KEY	Mode	Indication	FUNC A	FUNC B
[WAKE UP]	MD/CD2	Au	Н	L
[TIMER REC]	PHONO	PH	Н	Н
[+]	DECK	dE	L	L
[-]	CD(TX)	Cd	L	Н

Table 1 Front Panel Key Operation and Function Mode

The other front keys [SFC], [P. BASS], [DOLBY MODE] and [CENTER MODE] operate normally.

#### Service mode cancellation

Switch off the power once and then switch is on again normally. The function set in service mode remains memorized until the plug is pulled out of the power outlet.

#### Notes)

- 1. Always use this mode only for the amplifier by itself. (System operation does not operate normally.)
- 2. After cancellation of service mode according to the above method, the FL indication becomes DISPLAY OFF mode (the mode where the spectrum analyzer and the level meter part are not displayed).

For display of spectrum analyzer and level meter, push the [+] key of the unit in POWER-OFF condition to switch the DISPLAY mode.

#### ■ STK405-030A (REAR POWER AMP ASSY : IC2301) Audio Power IC

#### Block Diagram

